

THE INVENTION CLAIMED IS

1. A painted metal sheet which comprises a substrate metal sheet, a topcoat or clear paint layer of 5-40 μm in thickness, formed on said substrate metal sheet, wherein said topcoat or clear paint layer is used for transfer-printing with a sublimation dye to realize a colored design and said topcoat or clear paint comprises a resin paint containing glass flakes of 8 μm or less in thickness and 10-70 μm in average length at a ratio of 5-25 wt.% and calcium silicate of 1-8 μm in average primary particles size at a ratio of 0.5-10 wt.%, each based on a non-volatile component of said topcoat or clear paint.
2. The painted metal sheet of claim 1, wherein the topcoat or clear paint layer contains a component selected from the group consisting of triazine ultraviolet-absorbing agents and benzotriazole ultraviolet-absorbing agents.
3. The painted metal sheet of claim 1, further comprising an undercoat paint layer formed between said substrate metal sheet and said topcoat or clear paint layer.
4. The painted metal sheet of claim 1, further comprising a primer paint layer formed between said substrate metal sheet and said topcoat or clear paint layer.
5. The painted metal sheet of claim 1, wherein the topcoat or clear paint layer is transparent.
6. The painted metal sheet of claim 1, wherein the topcoat or clear paint layer is translucent.
7. A painted metal sheet, which comprises a substrate metal sheet, a topcoat or clear paint layer of 5-40 μm in thickness formed on said substrate metal sheet, wherein said topcoat or clear paint layer is used for transfer printing with a sublimation dye to realize a colored design and said topcoat or clear paint comprises a resin paint containing powdery silica of 0.5-8 μm in average particle size at a ratio of 1-10 wt. % based on a non-volatile component of said topcoat or clear paint.

8. The painted metal sheet of claim 7, wherein the topcoat or clear paint layer contains a component selected from the group consisting of triazine ultraviolet-absorbing agents and benzotriazole ultraviolet-absorbing agents.

9. The painted metal sheet of claim 7, further comprising an undercoat paint layer formed between said substrate metal sheet and said topcoat or clear paint layer.

10. The painted metal sheet of claim 7, further comprising a primer paint layer formed between said substrate metal sheet and said topcoat or clear paint layer.

11. The painted metal sheet of claim 7, wherein the topcoat or clear paint layer is transparent.

12. The painted metal sheet of claim 7, wherein the topcoat or clear paint layer is translucent.

13. A painted metal sheet, which comprises a substrate metal sheet, a topcoat or clear paint layer of 5-40 μm in thickness formed on said substrate metal sheet, wherein said topcoat or clear paint layer is used for transfer printing with a sublimation dye to realize a colored design and said topcoat or clear paint comprises a resin constituent selected from the group consisting essentially of:

- i) glass flakes, calcium silicate, and resin; and
- ii) resin and powdery silica.

14. The painted metal sheet of claim 13, wherein constituent i further comprises a resin paint containing glass flakes of 8 μm or less in thickness and 10-70 μm in average length at a ratio of 5-25 wt.% and calcium silicate of 1-8 μm in average primary particle size at a ratio of 0.5-10 wt.% each based on a non-volatile component of said topcoat or clear paint.

15. The painted metal sheet of claim 13, wherein constituent ii further comprises a resin paint containing powdery silica of 0.5-8 μm in average particle size at a ratio of 1-10 wt.% based on a non-volatile component of said topcoat or clear paint.

16. The painted metal sheet of claim 13, wherein the topcoat or clear paint layer contains a component selected from the group consisting of triazine ultraviolet-absorbing agents and benzotriazole ultraviolet-absorbing agents.

17. The painted metal sheet of claim 13, further comprising an undercoat paint layer formed between said substrate metal sheet and said topcoat or clear paint layer.

18. The painted metal sheet of claim 13, further comprising a primer paint layer formed between said substrate metal sheet and said topcoat or clear paint layer.

19. The painted metal sheet of claim 13, wherein the topcoat or clear paint layer is transparent.

20. The painted metal sheet of claim 13, wherein the topcoat or clear paint layer is translucent.